

Application No. 10/774,285
Docket No. UC0406USCIP

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Listing of Claims:

1. (Previously Presented) An active layer comprising at least one compound having a formula selected from Formula II and Formula III:

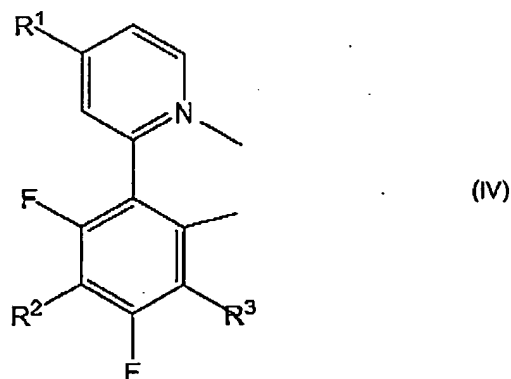
PtL^1L^2 (II)

$PtL^1L^3L^4$ (III)

where:

in Formulae II and III:

L^1 has Formula IV:



wherein:

$R^1 = H, R^4, OR^4, N(R^4)_2$

$R^2 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN$

$R^3 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN,$

R^4 is the same or different at each occurrence and is H, alkyl, aryl, or adjacent R^4 groups can join together to form a 5- or 6-membered ring, and n is an integer from 1 through 20;

in Formula II:

L^2 is a phosphino alkoxide;

in Formula III:

L^3 is a monoanionic monodentate ligand; and

L^4 is a nonionic monodentate ligand.

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2. (Previously Presented) The active layer of Claim 1, wherein R² and R³ are independently selected from H, CF₃, C₂F₅, *n*-C₃F₇, *i*-C₃F₇, C₄F₉, CF₃SO₂, COOR⁴ and CN.

3. (Canceled)

4. (Previously Presented) The active layer of Claim 1, wherein the compound has Formula III and L³ is a hydride.

5. (Previously Presented) The active layer of Claim 1, wherein L¹ is selected from ligand 1-a through 1-y:

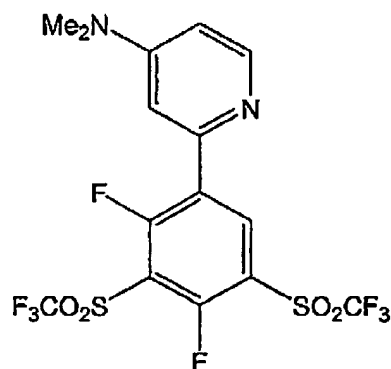
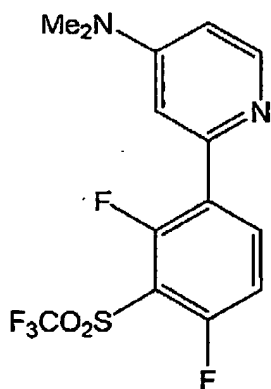
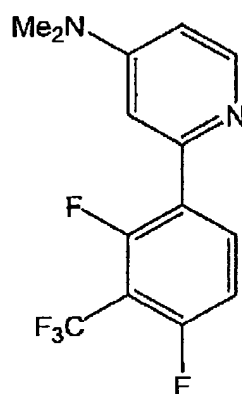
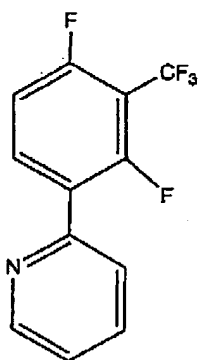
Ligand	R ¹	R ²	R ³
1-a	H	H	H
1-b	H	CF ₃	H
1-c	H	COOMe	H
1-d	H	CN	H
1-e	CH ₃	H	H
1-f	CH ₃	CF ₃	H
1-g	CH ₃	COOMe	H
1-h	CH ₃	CN	H
1-i	CH ₃	H	H
1-j	t-butyl	H	H
1-k	OMe	CF ₃	H
1-l	OMe	COOMe	H
1-m	OMe	CN	H
1-n	OMe	CF ₃	CF ₃
1-o	NMe ₂	H	H
1-p	NMe ₂	CF ₃	H
1-q	NMe ₂	COOMe	H
1-r	NMe ₂	CN	H

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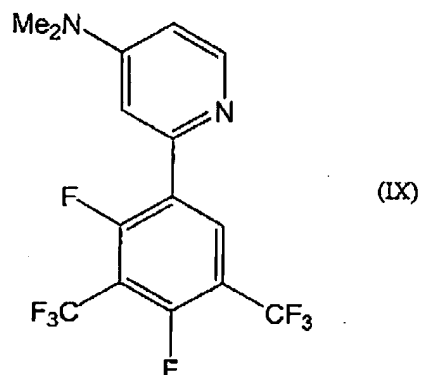
Ligand	R ¹	R ²	R ³
1-s	NMe ₂	CF ₃ SO ₂	H
1-t	NMe ₂	C ₂ F ₅	H
1-u	NMe ₂	CF(CF ₃) ₂	H
1-v	NMe ₂	H	H
1-w	NPh ₂	CF ₃	H
1-x	NPh ₂	COOMe	H
1-y	NPh ₂	CN	H

6. (Previously Presented) The active layer of Claim 1, wherein L¹ is selected from Formula V, Formula VI, Formula VII, Formula VIII, and Formula IX:



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7. (Original) An organic electronic device comprising at least one active layer of Claim 1.

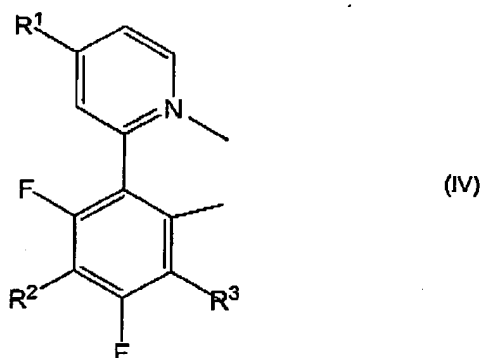
8. (Previously Presented) A compound having a formula selected from Formula II and Formula III:



where:

in Formulae II and III:

L^1 has Formula IV:



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wherein:

 $R^1 = H, R^4, OR^4, N(R^4)_2$ $R^2 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN$ $R^3 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN,$

R^4 is the same or different at each occurrence and is H, alkyl, aryl, or adjacent R^4 groups can join together to form a 5- or 6-membered ring, and n is an integer from 1 through 20;

in Formula II:

 L^2 is a phosphino alkoxide;

in Formula III:

 L^3 is a monoanionic monodentate ligand; and L^4 is a nonionic monodentate ligand.

9. (Previously Presented) The compound of Claim 8, wherein L^1 is selected from ligands 1-a through 1-y:

Ligand	R^1	R^2	R^3
1-a	H	H	H
1-b	H	CF_3	H
1-c	H	COOMe	H
1-d	H	CN	H
1-e	CH_3	H	H
1-f	CH_3	CF_3	H
1-g	CH_3	COOMe	H
1-h	CH_3	CN	H
1-i	CH_3	H	H
1-j	t-butyl	H	H
1-k	OMe	CF_3	H
1-l	OMe	COOMe	H
1-m	OMe	CN	H
1-n	OMe	CF_3	CF_3
1-o	NMe_2	H	H

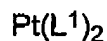
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Ligand	R ¹	R ²	R ³
1-p	NMe ₂	CF ₃	H
1-q	NMe ₂	COOMe	H
1-r	NMe ₂	CN	H
1-s	NMe ₂	CF ₃ SO ₂	H
1-t	NMe ₂	C ₂ F ₅	H
1-u	NMe ₂	CF(CF ₃) ₂	H
1-v	NMe ₂	H	H
1-w	NPh ₂	CF ₃	H
1-x	NPh ₂	COOMe	H
1-y	NPh ₂	CN	H

10. (Previously Presented) A compound of Claim 8, wherein R² and R³ are independently selected from H, CF₃, C₂F₅, n-C₃F₇, i-C₃F₇, C₄F₉, CF₃SO₂, COOR⁴ and CN.
11. (Canceled)
12. (Original) A compound of Claim 8, wherein the compound has Formula III and L³ is a hydride.
13. (Canceled)
14. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 8.
15. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 9.
16. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 10.
17. (Canceled)

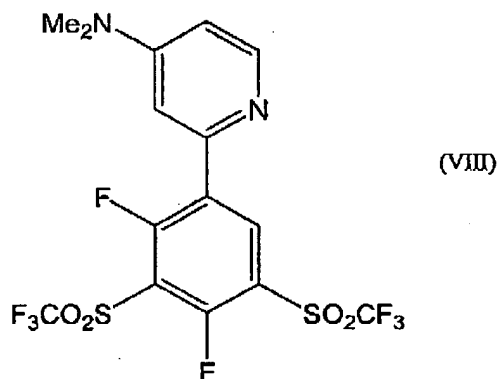
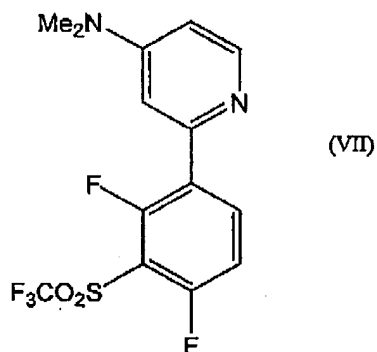
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18. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 12.
19. (Canceled)
20. (Original) An active layer of claim 1 further comprising a diluent.
21. (Original) An active layer of claim 20 wherein the diluent further comprises a material selected from a polymer, a small molecule, and a mixture thereof.
22. (Currently Amended) An active layer comprising at least one compound having Formula I



(I)

wherein L^1 is selected from Formula VII and Formula VIII:



23. (New) The active layer of Claim 1, wherein the compound has Formula II.
24. (New) A compound having Formula II:

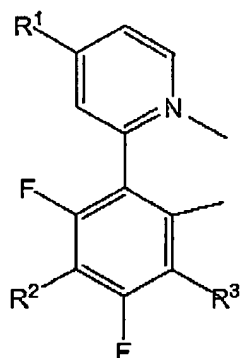
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PtL¹L²

(II)

where:

L¹ has Formula IV:

(IV)

wherein:

R¹ = H, R⁴, OR⁴, N(R⁴)₂R² = H, C_nF_{2n+1}, C_nF_{2n+1}SO₂, COOR⁴, CNR³ = H, C_nF_{2n+1}, C_nF_{2n+1}SO₂, COOR⁴, CN,

R⁴ is the same or different at each occurrence and is H, alkyl, aryl, or adjacent R⁴ groups can join together to form a 5- or 6-membered ring, and n is an integer from 1 through 20; and

L² is a phosphino alkoxide.

25. (New) An active layer comprising at least one compound having a formula selected from Formula II and Formula III:

PtL¹L²

(II)

PtL¹L³L⁴

(III)

where:

in Formulae II and III:

wherein L¹ is selected from Formula VII and Formula VIII:

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